

IN THE CLAIMS:

Claim 1 (currently amended): Ball A ball bearing for use in medical and dental applications with comprising:

an inner race and an outer race coaxial with the inner, said outer race having a bottom surface on which is provided a groove for accommodating a retaining ring and a cover disk, said retaining ring having an inner side and an outer side with respect to it, and said cover disk being positioned adjacent said inner side of said retaining ring;

bearing balls disposed between said inner race and said outer race; and
a cage comprising a composite material of heat cured epoxide resin as well as fibers which form a fibrous web;

~~wherein between inner race and outer race said bearing balls are disposed, which are guided by means of a said cage, wherein the cage is comprised of a composite material, characterized in that the composite material comprises epoxide resin as well as fibers. and wherein one of said inner race and said outer races rotates at a rate of about 500.000 rotations per minute, and wherein said ball bearing has an outer diameter of 30mm or less.~~

Claim 2 (currently amended): Ball A ball bearing as claimed in claim 1, characterized in that wherein the epoxide resin is temperature resistant at a temperature higher than 130°C, in particular at temperatures higher than or equal to 134°C, and/or that the epoxide resin and is pressure resistant, in particular at pressures about or above 1 bar, and/or that and wherein the epoxide resin is moisture resistant, in particular is resistant under a saturated vapor atmosphere.

Claim 3 (currently amended): Ball A ball bearing as claimed in claim 1,1,~~characterized in that~~ wherein the composite material is entirely comprised of epoxide resin as well as fibers.

Claim 4 (currently amended): Ball A ball bearing as claimed in claim 1,1,~~characterized in that~~ wherein the fibers are natural fibers and/or synthetic fibers.

Claim 5 (currently amended):Ball A ball bearing as claimed in claim 1, ~~characterized in that~~ wherein the fibers are developed as a ~~carrier material~~, in particular a strip-shaped carrier material, for the epoxide resin.

Claim 6 (currently amended): Ball A ball bearing as claimed in claim 5,~~characterized in that~~ wherein the carrier material is implemented as a structured fabric, in particular cloth.

Claim 7 (currently amended): Ball A ball bearing as claimed in claim 6,~~characterized in that~~ wherein the carrier material is developed as a fibrous web.

Claim 8 (currently amended):Ball A ball bearing as claimed in claim 1,~~characterized in that~~ wherein the cage (3), in particular the fibers, is filled with lubricant.

Claim 9 (canceled).

Claim 10 (new): A ball bearing as claimed in claim 1, wherein said ball bearing has an outer diameter is between 6mm and 12mm.